

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number
WO 2005/010078 A1

(51) International Patent Classification⁷: **C08G 77/26**,
77/54, C08L 83/08, C09D 183/14

(21) International Application Number:
PCT/US2004/022582

(22) International Filing Date: 13 July 2004 (13.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/487,697 16 July 2003 (16.07.2003) US

(71) Applicant (for all designated States except US): **DOW CORNING CORPORATION** [US/US]; 2200 West Salzburg Road, Midland, MI 48686-0994 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GORDON**, Glenn [US/US]; 3714 Collingwood Street, Midland, MI 48642 (US). **HORSTMAN**, John, Bernard [US/US]; 2806 West River Road, Midland, MI 48642 (US). **KING**, Russell [US/US]; 433 South Bay-Mid County Line Road, Midland, MI 48642 (US). **SCHMIDT**, Randall [US/US]; 813 Honeysuckle Circle, Midland, MI 48642 (US). **WIEBER**, Gary [US/US]; 4407 Huron Drive, Midland, MI 48642 (US). **WITUCKI**, Gerald, Lawrence [US/US]; 1315 Whitehall, Midland, MI 48642 (US).

(74) Common Representative: **SCADUTO**, Patricia, M.; Dow Corning Corporation, IP Department-Mail CO1232, 2200 West Salzburg Road, Midland, MI 48686-0994 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,

KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
- of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COATING COMPOSITIONS CONTAINING AMINOFUNCTIONAL SILICONE RESINS

(57) Abstract: This invention relates to a coating composition comprising (A) 100 weight parts of a compound containing at least one acrylate group or a compound containing at least one isocyanate group; (B) at least one aminofunctional silicone resin; (C) up to 300 weight parts of at least one organic hardener; and (D) up to 5 weight parts of at least one cure rate modifier. The coating compositions of this invention are useful as a stand alone coating or as ingredients in flame retardant coating compositions, fabric or fiber coating compositions, UV resistant coating compositions, paint formulations, powder coatings, architectural coatings and adhesives. The coating compositions of this invention have enhanced thermal stability, particularly when used in coatings, paints, powder coatings, architectural coatings, and adhesives.

WO 2005/010078 A1